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1 [Image retrieval: Ideas, influences, and trends of the new age](#)


 Ritendra Datta, Dhiraj Joshi, Jia Li, James Z. Wang
 April 2008 ACM Computing Surveys (CSUR), Volume 40 Issue 2
 Publisher: ACM

 Full text available: [Pdf](#) (2.81 MB) [Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 482, Downloads (12 Months): 1801, Citation Count: 2

We have witnessed great interest and a wealth of promise in content-based image retrieval as an emerging technology. While the last decade laid foundation to such promise, it also paved the way for a large number of new techniques and systems, got many ...

Keywords: Content-based image retrieval, annotation, learning, modeling, tagging

2 [CLAIRE: A modular support vector image indexing and classification system](#)


 Chih-Fong Tsai, Ken McGarry, John Tait
 July 2006 ACM Transactions on Information Systems (TOIS), Volume 24 Issue 3
 Publisher: ACM

 Full text available: [Pdf](#) (1.60 MB) [Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 206, Citation Count: 0

Many users of image retrieval systems would prefer to express initial queries using keywords. However, manual keyword indexing is very time-consuming. Therefore, a content-based image retrieval system which can automatically assign keywords to images ...

Keywords: Content-based image retrieval, image classification, image indexing, multiple classifier systems, support vector machines

3 [Content-based image retrieval: approaches and trends of the new age](#)


 Ritendra Datta, Jia Li, James Z. Wang
 November 2005 M IR '05: Proceedings of the 7th ACM SIGMM international workshop on
 Multimedia information retrieval
 Publisher: ACM

 Full text available: [Pdf](#) (467.64 KB) [Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 108, Downloads (12 Months): 728, Citation Count: 14

The last decade has witnessed great interest in research on content-based image retrieval. This has paved the way for a large number of new techniques and systems, and a growing interest in associated fields to support such systems. Likewise, digital ...

Keywords: annotation, content-based image retrieval

4 [Face recognition: A literature survey](#)



W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4

Publisher: ACM

Full text available: Pdf (4.28 MB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 599, Downloads (12 Months): 3425, Citation Count: 79

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide ...

Keywords: Face recognition, person identification

5 [Comparison of two approaches to building a vertical search tool: a case study in the nanotechnology domain](#)



Michael Chau, Hsinchun Chen, Jialun Qin, Yilu Zhou, Yi Qin, Wai-Ki Sung, Daniel McDonald

July 2002 JCDL '02: Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM

Full text available: Pdf (859.29 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 82, Citation Count: 7

As the Web has been growing exponentially, it has become increasingly difficult to search for desired information. In recent years, many domain-specific (vertical) search tools have been developed to serve the information needs of specific fields. This ...

Keywords: indexing, information retrieval, internet searching and browsing, internet spider, noun-phrasing, personalization, post-retrieval analysis, self-organizing map, summarization, vertical search engine, web search engine

6 [Feature-based similarity search in 3D object databases](#)



Benjamin Bustos, Daniel A. Keim, Dietmar Saupe, Tobias Schreck, Dejan V. Vranić

December 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 4

Publisher: ACM

Full text available: Pdf (5.29 MB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 82, Downloads (12 Months): 630, Citation Count: 6

The development of effective content-based multimedia search systems is an important research issue due to the growing amount of digital audio-visual information. In the case of images and video, the growth of digital data has been observed since the ...

Keywords: 3D model retrieval, content-based similarity search



Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3

Publisher: ACM

Full text available: Pdf (636.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 403, Downloads (12 Months): 3295, Citation Count: 341

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

8

Targeted filter evolution for improved image reconstruction resolution



Michael R. Peterson, Gary B. Lamont, Frank Moore, Patrick Marshall

July 2007 GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation

Publisher: ACM

Full text available: Pdf (1.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 68, Citation Count: 1

Government, commercial, scientific, and defense applications in image processing often require transmission of large amounts of data across bandwidth-limited channels. Applications require robust transforms simultaneously minimizing bandwidth requirements ...

Keywords: genetic algorithms, image processing, wavelets

9

Personalized spiders for web search and analysis



Michael Chau, Daniel Zeng, Hinchun Chen

January 2001 JCDL '01: Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM

Full text available: Pdf (672.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 154, Citation Count: 11

Searching for useful information on the World Wide Web has become increasingly difficult. While Internet search engines have been helping people to search on the web, low recall rate and outdated indexes have become more and more problematic as the ...

Keywords: information retrieval, internet searching and browsing, internet spider, noun-phrasing, personalization, self-organizing map

10

Visual islands: intuitive browsing of visual search results



Eric Zavesky, Shih-Fu Chang, Cheng-Chih Yang

July 2008 CIVR '08: Proceedings of the 2008 international conference on Content-based image and video retrieval

Publisher: ACM

Full text available: Pdf (2.25 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


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1 [Visual attention detection in video sequences using spatiotemporal cues](#)



Yun Zhai, Mubarak Shah

October 2006 MULTIMEDIA '06: Proceedings of the 14th annual ACM international conference on Multimedia

Publisher: ACM

Full text available: Pdf (1.77 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 163, Citation Count: 3

Human vision system actively seeks interesting regions in images to reduce the search effort in such as object detection and recognition. Similarly, prominent actions in video sequences are more likely to attract our first sight than their surrounding ...

Keywords: spatiotemporal saliency map, video attention detection

2 [An XQuery engine for digital library systems](#)

Ji-Hoon Kang, Chul-Soo Kim, Eun-Jeong Ko

May 2003 JCDL '03: Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries

Publisher: IEEE Computer Society

Full text available: Pdf (167.52 KB)

 Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 39, Citation Count: 2

XML is now a standard markup language for web information. Many application areas are producing XML documents on the web. This situation urges digital library systems to deal with not only type text documents but also XML documents. XML documents ...

Keywords: XML, XQuery, digital library system, information retrieval

3 [Topological mapping: a dimensionality reduction method for efficient video search](#)



Zaher Aghbari, Kunihiro Kaneko, Akifumi Makinouchi

March 2002 SAC '02: Proceedings of the 2002 ACM symposium on Applied computing

Publisher: ACM

Full text available: Pdf (573.08 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 14, Citation Count: 0

In this paper, we present a novel approach for efficient search of shots by the colors of objects that exist in the wanted shots. The idea is to map the color histogram, which represents the color co


of each object in the shot from the high-dimensional ...

4 [Classification of human actions using face and hands detection](#)

Hitoshi Ikeda, Masahiro Maeda, Noriji Kato, Hirotugu Kashimura

October 2004 MULTIMEDIA '04: Proceedings of the 12th annual ACM international conference on Multimedia

Publisher: ACM

Full text available:  Pdf (988.23 KB)

[Additional Information: full citation, abstract, references, cited by, index term](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 57, Citation Count: 2

In this paper, we describe a novel classification technique that separates video scenes, like office tasks, into several scenes according to each task. Even if the difference of as a whole image frame in each task is small, the difference ...

Keywords: classification, face detection, hand detection, hierarchical clustering, video

5 [Fuzzy color quantization and its application to scene change detection](#)

Fu-lai Chung, Benny Y. M. Fung

November 2003 MIR '03: Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval

Publisher: ACM

Full text available:  Pdf (447.67 KB)

[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 63, Citation Count: 0

It is both impractical and unnecessary to use true color, i.e., 24-bit colors, for most multimedia processing tasks since the computational complexity is extremely high and adjacent colors in the model do not contribute much to visual and computational ...

Keywords: color histogram, color quantization, scene change detection, video shot

6 [On clustering and retrieval of video shots](#)

Chong-Wah Ngo, Ting-Chuen Pong, Hong-Jiang Zhang

October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multimedia

Publisher: ACM

Full text available:  Pdf (17.79 MB)

[Additional Information: full citation, abstract, references, cited by, index term](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 70, Citation Count: 7

Clustering of video data is an important issue in video abstraction, browsing and retrieval. In this paper, we propose a two-level hierarchical clustering approach by aggregating shots with similar motion and color features. Motion features are computed ...

Keywords: hierarchical clustering, motion and color retrieval, team classification

7 [Similarity queries in the DISIMA image DBMS](#)

Vincent Oria, M. Tamer Özsu, Shu Lin, Paul J. Iglinski

October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multimedia

Publisher: ACM

Full text available:  Pdf (1.48 MB)

[Additional Information: full citation, abstract, references, cited by, index term](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 21, Citation Count: 1


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Terms used: [search with self organizing map](#) [color histogram](#)

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Result page: 1 2 3 4 [next](#) >>1 [A survey on wavelet applications in data mining](#)

Ac



Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogiwara

December 2002 ACM SIGKDD Explorations Newsletter, Volume 4 Issue 2

Publisher: ACM

Full text available: Pdf (33.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 80, Downloads (12 Months): 569, Citation Count: 15

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper ...

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W2 [Proceedings of the international workshop on Workshop on multimedia information retrieval](#)

James Z. Wang, Nozha Boujemaa, Alberto Del Bimbo, Jia Li

September 2007 proceeding

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

It is our great pleasure to welcome you to the *9th ACM SIG Multimedia International Workshop on Multimedia Information Retrieval -- MIR'07*. Like in the past years, this workshop is held in conjunction with the ACM Multimedia Conference. Continuing ...

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G3 [Proceedings of the international workshop on Workshop on mobile video](#)

Eckehard Steinbach, Chang Wen Chen

September 2007 proceeding

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

It is our great pleasure to welcome you to the *1st ACM Workshop on Mobile Video -- MV'07* which is held in conjunction with ACM Multimedia 2007 in the beautiful city of Augsburg. The intention of this workshop is to establish a premium forum for ...

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4 [Proceedings of the international workshop on Educational multimedia and multimedia education](#)



Gerald Friedland, Wolfgang Hürst, Lars Knipping, Max Mühlhäuser
September 2007 proceeding
Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Advances in multimedia capture, analysis and delivery, combined with the rapid adoption of broadband communication, have resulted in multimedia systems that have advanced traditional forms of education. Research in these areas has achieved impressive ...

5 [Workshop on multimedia information retrieval on The many faces of multimedia semantics](#)



Farshad Fotouhi, William Grosky, Peter Stanchev
September 2007 proceeding
Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

It is our great pleasure to welcome you to the *First ACM Workshop on The Many Faces of Multimedia Semantics -- MS'07*. This symposium is the incarnation of the four Workshops on Multimedia Semantics, organized by us, and held in Sofia (Bulgaria), ...

6 [Proceedings of the 15th international conference on Multimedia](#)



Rainer Lienhart, Anand R. Prasad, Alan Hanjalic, Sunghyun Choi, Brian Bailey, Nicu Sebe
September 2007 proceeding
Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Welcome to the Fifteenth ACM International Conference on Multimedia (ACM MM 2007), held September 24-29, 2007 at University of Augsburg in the beautiful and historic city of Augsburg, Bavaria, Germany. The city was founded 15 BC in the reign of Roman ...

7 [Proceedings of the international workshop on Human-centered multimedia](#)



Alejandro Jaimes, Nicu Sebe
September 2007 proceeding
Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

It is our great pleasure to welcome you to the *2nd ACM International Workshop on Human-centered Multimedia -- HCM'07*. This year's workshop continues its tradition of being the premier forum for presentation of research results and experience reports ...


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1 [A bootstrapping framework for annotating and retrieving WWW images](#)



Huamin Feng, Rui Shi, Tat-Seng Chua

October 2004 MULTIMEDIA '04: Proceedings of the 12th annual ACM international conference on Multimedia

Publisher: ACM

 Full text available: [Pdf](#) (243.08 KB)

[Additional Information: full citation, abstract, references, cited by, index term](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 87, Citation Count: 10

Most current image retrieval systems and commercial search engines use mainly text annotation index and retrieve WWW images. This research explores the use of machine learning approaches to automatically annotate WWW images based on a predefined ...

Keywords: WWW images, bootstrapping, co-training, image annotation

2 [Detection of video sequences using compact signatures](#)



Justin Zobel, Timothy C. Hoad

January 2006 ACM Transactions on Information Systems (TOIS), Volume 24 Issue 1

Publisher: ACM

 Full text available: [Pdf](#) (725.90 KB)

[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 258, Citation Count: 0

Digital representations are widely used for audiovisual content, enabling the creation of large or repositories of video, allowing access such as video on demand. However, the ease of copying a distribution of digital video makes piracy a growing ...

Keywords: Video similarity detection, dynamic programming, local alignment

3 [Image retrieval: Ideas, influences, and trends of the new age](#)



Ritendra Datta, Dhiraj Joshi, Jia Li, James Z. Wang

April 2008 ACM Computing Surveys (CSUR), Volume 40 Issue 2

Publisher: ACM

 Full text available: [Pdf](#) (2.81 MB)

[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 482, Downloads (12 Months): 1801, Citation Count: 2

We have witnessed great interest and a wealth of promise in content-based image retrieval as an emerging technology. While the last decade laid foundation to such promise, it also paved the way

a large number of new techniques and systems, got many ...

Keywords: Content-based image retrieval, annotation, learning, modeling, tagging

4 [A gentle introduction to bilateral filtering and its applications](#)



Sylvain Paris

August 2007 SIGGRAPH '07: ACM SIGGRAPH 2007 courses

Publisher: ACM

Full text available: Mov (100:20 MIN), Pdf (27.35 MB) Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 81, Downloads (12 Months): 663, Citation Count: 0

- Image-based modeling and photo editing *Oh et al.* ACM SIGGRAPH conference (c) 2001, Assoc for Computing Machinery, Inc. Reprinted by permission. <http://doi.acm.org/10.1145/383259.38>
Fast bilateral filtering for the display of high-dynamic-range ...

5 [Dynamic spatial approximation trees](#)



Gonzalo Navarro, Nora Reyes

June 2008 Journal of Experimental Algorithmics (JEA), Volume 12

Publisher: ACM

Full text available: Pdf (2.32 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 259, Citation Count: 0

Metric space searching is an emerging technique to address the problem of efficient similarity searching in many applications, including multimedia databases and other repositories handling complex objects. Although promising, the metric space approach ...

Keywords: Multimedia databases, similarity or proximity search, spatial and multidimensional : spatial approximation tree

6 [Theory of keyblock-based image retrieval](#)



Lei Zhu, Ai Bing Rao, Aldong Zhang

April 2002 ACM Transactions on Information Systems (TOIS), Volume 20 Issue 2

Publisher: ACM

Full text available: Pdf (2.14 MB) Additional Information: full citation, abstract, references, cited by, index term review

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 146, Citation Count: 5

The success of text-based retrieval motivates us to investigate analogous techniques which can support the querying and browsing of image data. However, images differ significantly from text syntactically and semantically in their mode of representing ...

Keywords: clustering, codebook, content-based image retrieval, keyblock

7 [Partial query resolution for animation authoring](#)



Phani S. Kotharu, B. Prabhakaran

January 2008 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 4 Issue 1

Publisher: ACM

Full text available: Pdf (1.47 MB) Additional Information: full citation, abstract, references, index terms


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1 [Proceedings of the 2008 ACM symposium on Applied computing](#)



Roger L. Wainwright, Hisham M. Haddad

March 2008 proceeding

Publisher: ACM

 Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Welcome to the 23rd Annual ACM Symposium on Applied Computing (SAC 2008). This international event is dedicated to computer scientists, engineers, and practitioners seeking innovative ideas in various areas of computer applications. This year, the conference ...

2 [Image retrieval: Ideas, influences, and trends of the new age](#)



Ritendra Datta, Dhiraj Joshi, Jia Li, James Z. Wang

April 2008 ACM Computing Surveys (CSUR), Volume 40 Issue 2

Publisher: ACM

 Full text available: Pdf (2.81 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: Content-based image retrieval, annotation, learning, modeling, tagging

3 [Exploratory multilevel hot spot analysis: Australian taxation office case study](#)

Denny, Graham J. Williams, Peter Christen

December 2007 AusDM '07: Proceedings of the sixth Australasian conference on Data mining and analytics - Volume 70, Volume 70

Publisher: Australian Computer Society, Inc.

 Full text available: Pdf (737.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 9, Citation Count: 0

Population based real-life datasets often contain smaller clusters of unusual sub-populations. While these clusters, called 'hot spots', are small and sparse, they are usually of special interest to an analyst. In this paper we introduce a visual drill-down ...


Keywords: cluster analysis, drill-down, imbalanced data, neural network, self-organizing maps, visualization

4 Intelligent patent analysis through the use of a neural network: experiment of multi-viewpoint analysis with the MultiSOM model

Jean-Charles Lamirel, Shadi Al Shehabi, Martial Hoffmann, Claire François

July 2003 Proceedings of the ACL-2003 workshop on Patent corpus processing - Volume 20, Volume 20

Publisher: Association for Computational Linguistics

Full text available:  Pdf (543.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 100, Citation Count: 4

The main area of this paper concerns the neural methods for mapping scientific and technical information (articles, patents) and for assisting a user in carrying out the complex process of analysing large quantities of such information. In the procedure ...


5 Face recognition: A literature survey



W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4

Publisher: ACM

Full text available:  Pdf (4.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 599, Downloads (12 Months): 3425, Citation Count: 79

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide ...

Keywords: Face recognition, person identification


6 Data clustering: a review



A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3

Publisher: ACM

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Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

7 Feature-based similarity search in 3D object databases



Benjamin Bustos, Daniel A. Keim, Dietmar Saupe, Tobias Schreck, Dejan V. Vranić

December 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 4

Publisher: ACM